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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/666,911	09/19/2003	Kazumoto Shinojima	93198-000551	6489
	7590 04/11/2007 CKEY & PIERCE, P.L.C.	EXAMINER		
P.O. BOX 828		CHIEM, DINH D		
BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER
			2883	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/11/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)					
	10/666,911	SHINOJIMA, KAZUMOTO					
Office Action Summary	Examiner	Art Unit					
_	Erin D. Chiem	2883					
The MAILING DATE of this communication app							
Period for Reply		•					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>17 Ja</u>	anuary 2007.						
	•						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1,2,11,13,16,20 and 21</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,2,11,13,16,20 and 21</u> is/are rejected.							
	7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	er.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	• • • • • • • • • • • • • • • • • • • •	•					
11) ☐ The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	e Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) ☐ Acknowledgment is made of a claim for foreigna) ☐ All b) ☐ Some * c) ☐ None of:)-(d) or (f).					
1. Certified copies of the priority documents have been received.							
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
•		ed in this National Stage					
application from the International Burea * See the attached detailed Office action for a list		ed .					
oce the attached detailed Office action for a list	or the certified copies not receive	cu.					
Attachment(s)							
1) M Notice of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)					
2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D 5) Notice of Informal I	ate					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application					

Application/Control Number: 10/666,911

Art Unit: 2883

DETAILED ACTION

This office action is in response to applicant's request for continued examination filed on January 17, 2007. Currently, claims 1-2, 11, 13, 16, and 20-21 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 11, 13, 16, and 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katahira (US 2003/0063456 A1) in view of Villain et al. (us 6,692,263 B2).

In terms of claims 1 and 21, Katahira discloses an electronic instrument comprising: an electro-optical panel having an electro-optical material (Figs. 5 and 6),

a light-guide plate having a first surface and a second surface on opposite sides thereof, the first surface facing the electro-optical panel and extending substantially parallel with the electro-optical panel in a predetermined direction, a thickness of the light-guide plate gradually decreasing in the predetermined direction so that the second surface is inclined with respect to the electro-optical panel (442);

a wiring circuit board disposed at the inclined second surface of the light-guide plate (431);

a conductive terminal disposed on the wiring circuit board (Para [0080]-[0081]);

Application/Control Number: 10/666,911

Art Unit: 2883

a circuit board (411);

a connector mounted on the circuit board and having an elastically deformable compression-type connector terminal (406) in conductive contact with the terminal on the wiring circuit board at the conductive contact position, the connector being shiftable in the predetermined direction on the circuit board and the conductive contact position between the connector terminal of the connector.

However, Katahira does not explicitly disclose the specificity of a connector mounted on the circuit board at a position between the wiring circuit board and the circuit board and is in conductive contact with the terminal on the wiring circuit board or circuit board at the conductive contact position.

Villain discloses a spring connector for electrically connecting tracks on a display screen with an electrical circuit. Fig. 1 and 3 shows that the spring connector is in electrical contact with element V (glass face), lightguide (5), and printed circuit for the purpose of providing compression holding means to hold LCD screen and circuit together in conductive contact (Col. 1, lines 30-67 to col. 2, lines 1-6).

It would have been obvious to one having ordinary skill in the art to recognize the disclosure of Villain provides the motivation to place the spring connector in between the "circuit board" and the "wiring circuit board" to hold the lightguide and the wiring circuit together in conductive contact. Therefore, it would have been obvious to modify Kitahara's invention to place the elastically deformable compression-type connector terminal in between the "circuit board" and the "wiring circuit board," as claimed since Kitahara teaches the elastically deformable compression-type connector terminals, and paragraph [0080] discloses the various

Application/Control Number: 10/666,911 Page 4

Art Unit: 2883

substrates (410, 411, 412, 414, 434, 410, 430, 431, 432) all have conductive wiring patterns on the opposing sides such that they are all in conductive contact with one another.

Claim 2, as rejected over Katahira in view of Villain above, Katahira further discloses a fixing structure (Fig. 5, '401') for fixing the holding member on a mounting surface of the circuit board at the arrangement position.

Claim 11, as rejected over Katahira in view of Villain above, Katahira further discloses the controlling means for controlling the electro-optical device is disclosed in paragraph [0007].

As to claims 13 and 16, the circuit board is provided with a mounting terminal (401), which is brought into conductive contact with the connector, and has a shape extending in the predetermined direction.

As to claim 20, the light source for introducing light inside the light guide plate from an edge of the light guide plate (421 and 441) wherein the light source is arranged to oppose and edge of the light guide plate disposed in a direction opposite to the predetermined direction.

Response to Arguments

Applicant's arguments with respect to claims 1-2, 11, 13, 16, and 20-21 have been considered but are most in view of the new ground(s) of rejection. Examiner provided new grounds of rejection in response to applicant's amended limitations.

Conclusion

Art Unit: 2883

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erin D. Chiem whose telephone number is (571) 272-3102. The examiner can normally be reached on Monday - Thursday 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Erin D Chiem Examiner Art Unit 2883 Frank G. Font
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